,	CRF Errors Corrected by the STIC Systems Branch
1 †	CRE Errors Corrected by the STIC Systems British CRE Processing Date: 8/21/2 Changed a file from non-ASCII to ASCII ENTERED Edited by: Verified by: Verified by:
	Changed the margins in cases where the sequence text was "wrapped" down to the next line.
	Edited a format error in the Current Application Data section, specifically:
•	Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other
	Added the mandatory heading and subheadings for "Current Application Data".
	Edited the 'Number of Sequences' field. The applicant spelled out a number instead of using an integr
	Changed the spelling of a mandatory field (the headings or subheadings), specifically:
	Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
	Inserted or corrected a nucleic number at the end of a nucleic line. SEO ID NO's edited:
	Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
	Inserted colons after headings/subheadings. Headings edited included: •, .
	Deleted extra, invalid, headings used by an applicant, specifically:
	Deletod: Then-ASCII "garbage" at the beginning/end of files: secretary initials/filename at end o page numbers throughout text; other invalid text, such as
	Inserted mandatory headings, specifically:
	Corrected an obvious error in the response, specifically:
•	Edited identifiers where upper case is used but lower case is required, or vice versa.
	Corrected an orror in the Number of Sequences field, specifically:
_	A "Hard Pago Break" code was inserted by the applicant. All occurrences had to be deleted.
_	eleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (end to a Patentin bug). Sequences corrected:
dı	to a rate thin bug). Sequences corrected.

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

Input Set : N:\jumbos\457864.txt

	<110>					neer	HiE	Bred	Inte	≥rnat	iona	al		•			
5	-12.00			Lee													
8	<120> TITLE OF INVENTION: RECEPTOR FOR A BACILLUS THURINGIENSIS TOXIN																
_	<pre>TOXIN <130> FILE REFERENCE: 27112-20037.13</pre>																
	<140>										7,864	Į.					
13	<141>	> CUR	REN'	T FI	LING	DAT	PE: 1	999	-12-1	LO							•
15	<150>	> PRI	OR I	APPI	JICAI	NOI	NUME	BER:	US (08/32	26,13	L 7					
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	<160>																
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	<221>				CDS												
	<222>		•			7)	(534	18)									
	<400>				-	·	•	-									
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		-		_							_				_	caacaa	120
		_		-	_			-	-		_		_			gaaaag	180
	cccca	aaata	a t	gtga	-		_	_	_	_		-	_			g ctg	232
36 37					Me		La Va	al As	_	31 A1	rg 11	Le A	.a A		ne ье 10	eu Leu	
	gtg t	+++ s	t a .	aca	_	_	att	++=	7	•	a a a	2012	t at	-		ato	280
	Val E																200
41																	
			15					20			024	9	25	•	•		
43	acc g	усс а		cca	agg	cta	cca		ccg				25				328
	acc g		tc					cga		gat	aat	ttg	25 cca	gta	cta	aat	328
44 45	Thr A	Ala I 30	tc le	Pro	Arg	Leu	Pro 35	cga Arg	Pro	gat Asp	aat Asn	ttg Leu 40	25 cca Pro	gta Val	cta Leu	aat Asn	
44 45 47	Thr A	Ala I 30 gaa g	tc le	Pro cag	Arg	Leu tgg	Pro 35 agt	cga Arg	Pro agg	gat Asp ccc	aat Asn ctg	ttg Leu 40 ctc	25 cca Pro	gta Val gcc	cta Leu ccg	aat Asn gag	328 376
44 45 47 48	Thr A	Ala I 30 gaa g	tc le	Pro cag	Arg	Leu tgg Trp	Pro 35 agt	cga Arg	Pro agg	gat Asp ccc	aat Asn ctg Leu	ttg Leu 40 ctc	25 cca Pro	gta Val gcc	cta Leu ccg	aat Asn gag Glu	
44 45 47 48 49	Thr A	Ala I 30 gaa g Glu G	tc le gc	Pro cag Gln	Arg aca Thr	Leu tgg Trp 50	Pro 35 agt Ser	cga Arg cag Gln	Pro agg Arg	gat Asp ccc Pro	aat Asn ctg Leu 55	ttg Leu 40 ctc Leu	25 cca Pro ccc Pro	gta Val gcc Ala	cta Leu ccg Pro	aat Asn gag Glu 60	376
44 45 47 48 49 51	Thr A	Ala I 30 gaa g Glu G	tc le gc ly	Pro cag Gln ctg	Arg aca Thr	tgg Trp 50 atg	Pro 35 agt Ser	cga Arg cag Gln	Pro agg Arg tac	gat Asp ccc Pro	aat Asn ctg Leu 55 gtg	ttg Leu 40 ctc Leu	25 cca Pro ccc Pro aca	gta Val gcc Ala gcc	cta Leu ccg Pro	aat Asn gag Glu 60 ctc	
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44 45 47 48 49 51 52 53	Thr A	Ala I 30 gaa g Glu G gat g Asp A	tc le gc ly ac	Pro cag Gln ctg Leu	Arg aca Thr tgc Cys 65	tgg Trp 50 atg Met	Pro 35 agt Ser gac Asp	cga Arg cag Gln gcc Ala	Pro agg Arg tac Tyr	gat Asp ccc Pro cac His	aat Asn ctg Leu 55 gtg Val	ttg Leu 40 ctc Leu ata Ile	25 cca Pro ccc Pro aca Thr	gta Val gcc Ala gcc Ala	cta Leu ccg Pro aac Asn 75	aat Asn gag Glu 60 ctc Leu	376 424
44 45 47 48 49 51 52 53 55	ttt g Phe G 45 cgg g Arg A	Ala I 30 yaa g Glu G gat g Asp A	tc le gc ly ac sp ag	Pro cag Gln ctg Leu	aca Thr tgc Cys 65 atc	tgg Trp 50 atg Met	Pro 35 agt Ser gac Asp	cga Arg cag Gln gcc Ala	Pro agg Arg tac Tyr gaa	gat Asp ccc Pro cac His 70 gag	aat Asn ctg Leu 55 gtg Val	ttg Leu 40 ctc Leu ata Ile	25 cca Pro ccc Pro aca Thr	gta Val gcc Ala gcc Ala	cta Leu ccg Pro aac Asn 75	aat Asn gag Glu 60 ctc Leu	376
44 45 47 48 49 51 52 53 55	Thr A	Ala I 30 yaa g Glu G gat g Asp A	tc le gc ly ac sp ag	Pro cag Gln ctg Leu	aca Thr tgc Cys 65 atc	tgg Trp 50 atg Met	Pro 35 agt Ser gac Asp	cga Arg cag Gln gcc Ala	Pro agg Arg tac Tyr gaa	gat Asp ccc Pro cac His 70 gag	aat Asn ctg Leu 55 gtg Val	ttg Leu 40 ctc Leu ata Ile	25 cca Pro ccc Pro aca Thr	gta Val gcc Ala gcc Ala	cta Leu ccg Pro aac Asn 75	aat Asn gag Glu 60 ctc Leu	376 424
44 45 47 48 49 51 52 53 55 56 57	ttt g Phe G 45 cgg g Arg A	Ala I 30 gaa g Glu G gat g Asp A acg c	tc le gc ly ac sp ag	cag Gln ctg Leu gtc Val 80	aca Thr tgc Cys 65 atc Ile	tgg Trp 50 atg Met tac	Pro 35 agt Ser gac Asp atg Met	cga Arg cag Gln gcc Ala gat Asp	Pro agg Arg tac Tyr gaa Glu 85	gat Asp ccc Pro cac His 70 gag Glu	aat Asn ctg Leu 55 gtg Val ata Ile	ttg Leu 40 ctc Leu ata Ile gaa Glu	25 cca Pro ccc Pro aca Thr gac Asp	gta Val gcc Ala gcc Ala gaa Glu 90	cta Leu ccg Pro aac Asn 75 atc	aat Asn gag Glu 60 ctc Leu acc	376 424
44 45 47 48 49 51 52 53 55 56 57 59 60	Thr A	Ala I 30 yaa g Glu G gat g Asp A acg c Thr G	tc le gc ly ac sp ag ln ta	cag Gln ctg Leu gtc Val 80 ctt	aca Thr tgc Cys 65 atc Ile	tgg Trp 50 atg Met tac Tyr	Pro 35 agt Ser gac Asp atg Met	cga Arg cag Gln gcc Ala gat Asp	Pro agg Arg tac Tyr gaa Glu 85 cca	gat Asp ccc Pro cac His 70 gag Glu tca	aat Asn ctg Leu 55 gtg Val ata Ile act	ttg Leu 40 ctc Leu ata Ile gaa Glu ccg	25 cca Pro ccc Pro aca Thr gac Asp	gta Val gcc Ala gcc Ala gaa Glu 90 att	cta Leu ccg Pro aac Asn 75 atc Ile	aat Asn gag Glu 60 ctc Leu acc Thr	376 424 472
44 45 47 48 49 51 52 53 55 56 57 59 60 61	Thr A ttt g Phe G 45 cgg g Arg A ggc a Gly T atc g Ile A	Ala I 30 yaa g Glu G gat g Asp A acg c Ihr G ycc a	tc le gc ly ac sp ag ln ta le 95	cag Gln ctg Leu gtc Val 80 ctt Leu	aca Thr tgc Cys 65 atc Ile aat Asn	tgg Trp 50 atg Met tac Tyr tat Tyr	Pro 35 agt Ser gac Asp atg Met aac Asn	cga Arg cag Gln gcc Ala gat Asp gga Gly 100	Pro agg Arg tac Tyr gaa Glu 85 cca Pro	gat Asp ccc Pro cac His 70 gag Glu tca ser	aat Asn ctg Leu 55 gtg Val ata Ile act Thr	ttg Leu 40 ctc Leu ata Ile gaa Glu ccg Pro	25 cca Pro ccc Pro aca Thr gac Asp ttc Phe 105	gta Val gcc Ala gcc Ala gaa Glu 90 att Ile	cta Leu ccg Pro aac Asn 75 atc Ile gaa Glu	aat Asn gag Glu 60 ctc Leu acc Thr ctg Leu	376 424 472 520
44 45 47 48 49 51 52 53 55 60 61 63	Thr A ttt g Phe G 45 cgg g Arg A ggc a Gly T atc g Ile A	Ala I 30 yaa g Glu G gat g Asp A acg c Ihr G ycc a Ala I	tcle gcly acsp agln tale 95 ta	Pro cag Gln ctg Leu gtc Val 80 ctt Leu tcc	Arg aca Thr tgc Cys 65 atc Ile aat Asn	tgg Trp 50 atg Met tac Tyr tat Tyr	Pro 35 agt Ser gac Asp atg Met aac Asn	cga Arg cag Gln gcc Ala gat Asp gga Gly 100 aat	Pro agg Arg tac Tyr gaa Glu 85 cca Pro ctg	gat Asp ccc Pro cac His 70 gag Glu tca ser	aat Asn ctg Leu 55 gtg Val ata Ile act Thr	ttg Leu 40 ctc Leu ata Ile gaa Glu ccg Pro	25 cca Pro ccc Pro aca Thr gac Asp ttc Phe 105 gtc	gta Val gcc Ala gcc Ala gaa Glu 90 att Ile	cta Leu ccg Pro aac Asn 75 atc Ile gaa Glu	aat Asn gag Glu 60 ctc Leu acc Thr ctg Leu	376 424 472
44 45 47 48 49 51 52 53 55 56 57 59 60 61 63	Thr A ttt g Phe G 45 cgg g Arg A ggc a Gly T atc g Ile A cca t Pro I	Ala I 30 gaa g Glu G gat g Asp A acg c Thr G gcc a ttt t phe I	tcle gcly acsp agln tale 95 ta	Pro cag Gln ctg Leu gtc Val 80 ctt Leu tcc	Arg aca Thr tgc Cys 65 atc Ile aat Asn	tgg Trp 50 atg Met tac Tyr tat Tyr	Pro 35 agt Ser gac Asp atg Met aac Asn tac	cga Arg cag Gln gcc Ala gat Asp gga Gly 100 aat	Pro agg Arg tac Tyr gaa Glu 85 cca Pro ctg	gat Asp ccc Pro cac His 70 gag Glu tca ser	aat Asn ctg Leu 55 gtg Val ata Ile act Thr	ttg Leu 40 ctc Leu ata Ile gaa Glu ccg Pro ccg	25 cca Pro ccc Pro aca Thr gac Asp ttc Phe 105 gtc	gta Val gcc Ala gcc Ala gaa Glu 90 att Ile	cta Leu ccg Pro aac Asn 75 atc Ile gaa Glu	aat Asn gag Glu 60 ctc Leu acc Thr ctg Leu	376 424 472 520
44 45 47 48 49 51 52 53 55 66 57 59 60 61 63 64 65	Thr A ttt g Phe G 45 cgg g Arg A ggc a Gly T atc g Ile A cca t Pro I	Ala I 30 gaa g Glu G gat g Asp A acg c Thr G gcc a Ala I ttt t Phe I	gc gc ac sp ag ln ta le 95 ta eu	cag Gln ctg Leu gtc Val 80 ctt Leu tcc Ser	Arg aca Thr tgc Cys 65 atc Ile aat Asn ggt Gly	tgg Trp 50 atg Met tac Tyr tat Tyr tcg ser	Pro 35 agt Ser gac Asp atg Met aac Asn tac Tyr 115	cga Arg cag Gln gcc Ala gat Asp gga Gly 100 aat Asn	Pro agg Arg tac Tyr gaa Glu 85 cca Pro ctg Leu	gat Asp ccc Pro cac His 70 gag Glu tca Ser ctg Leu	aat Asn ctg Leu 55 gtg Val ata Ile act Thr atg Met	ttg Leu 40 ctc Leu ata Ile gaa Glu ccg Pro ccg Pro 120	25 cca Pro ccc Pro aca Thr gac Asp ttc Phe 105 gtc Val	gta Val gcc Ala gcc Ala gaa Glu 90 att Ile atc	cta Leu ccg Pro aac Asn 75 atc Ile gaa Glu agg Arg	aat Asn gag Glu 60 ctc Leu acc Thr ctg Leu aga Arg	376 424 472 520

Input Set : N:\jumbos\457864.txt

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72	Glu	Leu	Pro	Gly	Met	Gln	Gln	Tyr	Met	Phe	Asn	Val	Arg	Val	Asp	Gly	
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	cag																712
	Gln	Ser	Leu		Ala	Gly	Val	Ser		Ala	Ile	Val	Asn		Asp	Asp	
77				160					165					170			7.60
	aac	-									-		_		_	_	760
	Asn	Ата		iie	шe	GIn	Asn		GIU	Pro	Cys	Arg		Pro	GIU	Leu	
81	~~~	~~	175	~~~	++~	202	~ ~ ~	180	2.42	+	a aa	a+ a	185	<i>a</i> - <i>a</i>	<i>~~</i>	a 2 a	808
	ggc Gly				_		-										808
85	GLY	190	FIO	GIY	шец		195	СуБ	1111	тут	GIII	200	261	кър	AIA	ASP	
	gga		atc	adc	aca			ato	acq	ttc	agg		αac	agc	att	cat	856
	Gly			-		-											000
	205	9		501		210					215				-	220	
	ggc	σac	σασ	σασ			tac	atc	σaa	caa		aat	atc	ccc	aac		904
	Gly																
93					225		•			230					235		
95	tgg	atg	tgg	cta	aat	atg	acc	ata	ggc	gtt	aat	acc	tcg	ctc	aac	ttc	952
96	Trp	Met	Trp	Leu	Asn	Met	Thr	Ile	Gly	Val	Asn	Thr	Ser	Leu	Asn	Phe	
97	_			240					245					250			
99	gtc	acc	agt	ccg	ctg	cat	ata	ttc	agc	gtg	aca	gcc	ctg	gac	tcg	ctc	1000
10	0 Val	Thi	Ser	Pro	Leu	His	Ile	Phe	Ser	· Val	. Thr	: Ala	Let	ı Ası	Ser	Leu	
10			255					260					265				
	3 ccg																1048
10	4 Pro			: His	Thr	· Val	Thr	Met	: Met	. Val	. Glr	va]	Ala	ı Ası	ı Val	Asn	
10	_	270					275					280					
	7 ago	_		-	_												1096
		_	Pro	Pro	Arg	_		Glu	ı Ile	Phe			Glr	Gli	n Phe	Glu	
	9 285					290					295					300	
	1 gag																1144
	2 Glu	гтАг	s ser	туг	305		Pne	Thi	· vai	_		r TT6	e ASI) GI	7 ASE 315		
11	s 5 gag	+.	+					. +		310			+				1192
																a Asp	1192
11		. 110	, MOI	320		, 116	. Maii	TY	325		. 110	- 1111	. ASI	330		, vab	
	, 9 aca	tta	. ++c			αασ	acc	cto			aaa		ago			gta	1240
	0 Thr																
12			335					340		. 017	0-1	-1.	345		,		
	- 3 ttc	cto			сса	att	. qac			aca	cto	rcaa			ato	ttt	1288
																Phe	
12		350					355	-	_			360	_				
12	7 cca	ctt	ace	, atc	gto	gct	tac	aaa	ı tat	gat	gag	gag	geo	: tto	c too	aca	1336
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12	9 365	5				370					375	5				380	•
																cct Pro	1384

Input Set : N:\jumbos\457864.txt

133					385					390					395		
135	gaa	cct	ata	cac	aag	gaa	tat	cga	ctg	gca	atc	atg	gag	gag	acg	CCC	1432
136	Glu	Pro	Ile	His	Lys	Glu	Tyr	Arg	Leu	Ala	Ile	Met	Glu	Glu	Thr	Pro	
137				400					405			•		410			
139	ctg	acc	ctc	aac	ttc	gat	aaa	gaa	ttc	gga	ttt	cat	gat	aag	gat	tta	1480
140	Leu	Thr	Leu	Asn	Phe	Asp	Lys	Glu	Phe	Gly	Phe	His	Asp	Lys	Asp	Leu	
141			415					420					425				
143	ggt	caa	aac	gct	cag	tac	acg	gtg	cgt	cta	gag	agc	gtg	gac	cct	cca	1528
144	Gly	Gln	Asn	Ala	Gln	Tyr	Thr	Val	Arg	Leu	Glu	Ser	Val	Asp	Pro	Pro	
145		430					435					440		,			
														tac			1576
148	Gly	Ala	Ala	Glu	Ala		Tyr	Ile	Ala	Pro		Val	Gly	Tyr	Gln	_	
149						450					455					460	
	_				_									gat			1624
	Gln	Thr	Phe	Ile		Gly	Thr	Leu	Asn		Ser	Met	Leu	Asp		Glu	
153					465					470					475		1670
					_	_		_						acc			1672
	Val	Pro	Glu		Gln	Ser	Ile	Thr		Arg	Val	Val	Ala	Thr	Asp	Asn	
157				480					485					490		_4_	1700
														gac			1720
	Asn	Asp		Arg	Hls	vaı	GIY		Ата	Leu	vaı	HIS		Asp	Leu	IIe	
161			495					500	***				505	~~~	200	~+~	1768
														cag Gln			1/00
165	ASN	510	ASI	Asp	GIU	GIII	515	шe	Pne	GIU	HIS	520	Val	GIII	TIII	vai	
	3.00		~~ ~	a a a	act	ma a		a a a	aaa	++c	ttc		acc	aag	aca	att	1816
														Lys			1010
169		FILE	rsb	GIU	1111	530	Gry	GIU	GIY	1110	535	vai	niu	273	niu	540	
		cac	gac	аσа	gac		aaa	gat	atc	atc		cat	act	tta	ttσ		1864
														Leu			
173				5	545		1	F		550					555	1	
	aac	αct	att	aac	ttc	ctq	acc	atc	qac	aaa	ctc	acc	qqc	gac	atc	cqc	1912
		_	_											Asp			
177				560					565	-			_	570		-	
179	gtc	tca	gct	aac	gac	tcc	ttc	aac	tac	cat	cga	gaa	agt	gaa	tta	ttt	1960
180	Val	Ser	Ala	Asn	Asp	Ser	Phe	Asn	Tyr	His	Arg	Glu	Ser	Glu	Leu	Phe	
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184	Val	Gln	Val	Arg	Ala	Thr	Asp	Thr	Leu	Gly	Glu	Pro	Phe	His	Thr	Ala	
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187	acg	tca	cag	ctg	gtc	ata	cga	cta	aat	gac	atc	aac	aac	acg	cca	ccc	2056
188	Thr	Ser	Gln	Leu	Val	Ile	Arg	Leu	Asn	Asp	Ile	Asn	Asn	Thr	Pro		
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														aac			2104
	Thr	Leu	Arg	Leu		Arg	Gly	Ser	Pro		Val	Glu	Glu	Asn		Pro	
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Input Set : N:\jumbos\457864.txt

					-									ttc Phe	-		2200
203 204		Gln	ggc				Asn	ccc				Arg	aat	tgc Cys			2248
208	Ile					Pro					Arg		_	gct Ala		Gly	2296
211 212										Asn				gac Asp			2344
216					ctc									ctt Leu	aac		2392
220	-			gac	-		-	-	tcg	_				730 act Thr			2440
224	-	Met	aac	_			Pro	gtg				Gly	act	ctg Leu	-	-	2488
228	Asn		-		-	Glu	-	_			Gly			gtg Val		Ser	2536
231 232		_		_	Asp		_		_	Leu				gtg Val	Arg		2584
236				Pro	_	-	_		Asp	_	_	_		atg Met			2632
240			Thr					Val					Ala	810 atc Ile			2680
														gct Ala			2728
														ccg Pro			2776
251														acg Thr			2824
							-		_		_		-	gtg Val			2872
257 259	tac	gag	aac	880 gca	acc	cac	tta	gac	885 gag	gtg	gtc	act	ctg	890 ata Ile	gcc	agt	2920
261			895					900					905	gtc			2968

RAW SEQUENCE LISTING

DATE: 08/21/2001 TIME: 15:16:08

PATENT APPLICATION: US/09/457,864

Input Set : N:\jumbos\457864.txt

Output Set: N:\CRF3\08212001\I457864.raw

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		+ > +		ata	226	aat	ca a		2+4	aac	++0	++~		a+a	226	~~~	~~~	3016
																		2010
			Ald	Val	ASII	PIO	_	ьeu	Met	Asn	Pne		ser	vai	ASN	Arg		
		925					930					935					940	
										gag				_				3064
2	72	Thr	Gly	Leu	Val	${ t Tyr}$	Val	Asp	Tyr	Glu	Thr	Gln	Gly	Ser	Gly	Glu	Val	
2	73					945					950					955		
2	75	ctg	gac	cgt	gat	ggt	gat	gaa	cca	acg	cac	cgt	atc	ttc	ttc	aac	ctc	3112
		_	_	-	_		_	_		Thr		_						
	77		-	_	960	-	•			965				,	970			
			gac	aac		atσ	aaa	αаа	ααа	gaa	aat	aac	aga	aat		aac	gac	3160
										Glu								3100
		116	ASP	975	FIIE	Met	GIY	GIU		GIU	GIY	ASII	AIG		GIII	ASII	ASP	,
	81								980					985				
										gat								3208
		Thr	Glu	Val	Leu	Val	Ile	Leu	Leu	Asp	Val	Asn	Asp	Asn	Ala	Pro	Glu	
	85		990					995					1000					
2	87	ttg	cca	ccg	ccg	agc	gaa	ctc	tct	tgg	act	ata	tct	gag	aac	ctt	aag	3256
2	88	Leu	Pro	Pro	Pro	Ser	Glu	Leu	Ser	Trp	Thr	Ile	Ser	Glu	Asn	Leu	Lys	
		1005					1010					1015					1020	
				atc	cat	ctt			cat	atc	ttc	acc	cca	gac	cac	gac		3304
		_		-	_		_			Ile		_	_	_	_	_		3301
		GIII	GLY	Val	ALG			FIO	1112	116			FIO	ASP	AIG			
	93					1025					1030					103		2250
										ggc								3352
		Pro	Asp	Thr	_		Ser	Arg	Val	Gly	_	Glu	Ile	Leu			Ser	
2	97				1040)				1045	5				1050)		
2	99	acg	gag	cgg	gac	atc	gaa	gtg	ccg	gag	ctg	ttt	gtg	atg	ata	cag	atc .	3400
3	00	Thr	Glu	Arg	Asp	Ile	Glu	Val	Pro	Glu	Leu	Phe	Val	Met	Ile	Gln	Ile	
3	01			105	5				1060)				1065	5		•	
3	03	aca	aac	atc	acq	ασa	σασ	cta	gag	acc	qcc	atq	gac	ctc	aaσ	ασa	tat	3448
										Thr								
	05		1070			1		1075					1080		-1-	1	-1-	
		+ aa			t a c	act	a t a			cgg	ac =	++~			aac	2++	cca	3496
																		3470
		_	_	TIIT	TAT	Ala			11e	Arg	Ala		_	nis	GIY	TIE		
		1085					1090					1095					1100	
										gag								3544
3	12	Gln	Met	Ser	Met	Asn	Glu	Thr	Tyr	Glu	Leu	Ile	Ile	His	Pro	Phe	Asn	
3	13					1105	5				1110)			•	111!	5	
3	15	tac	tac	gcg	cct	gag	ttc	gtc	ttc	ccg	acc	aac	gat	gcc	gtc	ata	cga	3592
3	16	Tyr	Tyr	Ala	Pro	Glu	Phe	Val	Phe	Pro	Thr	Asn	Asp	Ala	Val	Ile	Arg	
	17	-	-		1120					1125			•		1130			
		ctt	aca	agg			act	σta	atc	aat		att	cta	aca			aac	3640
										Asn								3040
	20	шец	AIG	113		nr 9	ліа	var			GLY	Val	пса			Vai	ASII	
	21			TT3:	,				1140					1145				2600
3.	21												~~~	$\alpha \rightarrow \alpha$				
_	23				ttg													3688
	23 24		Glu	Phe				Ile	Ser	Ala			Pro	Asp				3688
3	23 24 25	Gly	Glu 1150	Phe	Leu	Glu	Arg	Ile 115	Ser	Ala	Thr	Asp	Pro 1160	Asp)	Gly	Leu	His	3688
3:	23 24 25 27	Gly gcg	Glu 1150 ggc	Phe) gtc	Leu gtc	Glu acc	Arg ttc	Ile 1155 caa	Ser 5 gtg	Ala gta	Thr ggc	Asp gat	Pro 1160 gag	Asp) gaa	Gly tca	Leu caa	His cgg	3688
3:	23 24 25 27	Gly gcg	Glu 1150 ggc	Phe) gtc	Leu gtc	Glu acc	Arg ttc	Ile 1155 caa	Ser 5 gtg	Ala	Thr ggc	Asp gat	Pro 1160 gag	Asp) gaa	Gly tca	Leu caa	His cgg	

Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 08/21/2001

PATENT APPLICATION: US/09/457,864

TIME: 15:16:09

Input Set : N:\jumbos\457864.txt

L:717	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:4
L:731	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:5
L:745	M:341	W :	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:6
L:759	M:341	W :	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:7
L:855	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:12
L:869	M:341	W :	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:13
L:883	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:14
L:897	M:341	W:	(46)	"n"	or	"Xaa"	used,	for	SEQ	ID#:15